

1762
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/516,582	
	Filing Date	June 17, 2005	
	First Named Inventor	Sunil Madhukar Bhangale	
	Group Art Unit	1762	
	Examiner Name		
Total Number of Pages in This Submission (including this sheet)	86	Attorney Docket No.	3172.ARTH.PT

ENCLOSURES (check all that apply)			
<input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Appeal Communication: <input type="checkbox"/> Appeal Notice <input type="checkbox"/> Appeal Brief <input type="checkbox"/> Reply Brief <input type="checkbox"/> Assignment with Cover Sheet <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Check in the amount of \$__ <input type="checkbox"/> Credit card authorization in the amount of \$__ <input type="checkbox"/> Declaration <input type="checkbox"/> Drawings __ sheets <input type="checkbox"/> Formal <input type="checkbox"/> Informal	<input type="checkbox"/> Extension of Time Request ____ month <input type="checkbox"/> Fee Calculation Table <input checked="" type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> Form 1449 <input checked="" type="checkbox"/> Copies of IDS References <input type="checkbox"/> Issue Fee Transmittal & Advance Order	<input type="checkbox"/> Maintenance Fee Transmittal ____ year <input type="checkbox"/> Missing Parts Response <input type="checkbox"/> Notification of Change of Attorney Address & Docket Number <input checked="" type="checkbox"/> Return Postcard <input type="checkbox"/> Revocation & Power of Attorney <input type="checkbox"/> Status Inquiry <input type="checkbox"/> Other:	Remarks
SIGNATURE OF APPLICANT, ATTORNEY OR AGENT			
Attorney for Applicant	Julie K. Morriss, Registration No. 33,263 MORRISS O'BRYANT COMPAGNI, P.C. 136 South Main Street, Suite 700 Salt Lake City, Utah 84101 (801) 478-0071 telephone; (801) 478-0076 facsimile		
Signature	<i>Julie K. Morriss</i>	Date	8-16-05
CERTIFICATE OF MAILING UNDER 37 CFR § 1.8			
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, on the date indicated below, in an envelope addressed to MAIL STOP AMENDMENT Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.			
Typed or Printed Name	Julie K. Morriss		
Signature	<i>Julie K. Morriss</i>	Date	8-16-05



Patent

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Sunil Madhukar Bhangale, et al.

SERIAL NO.: 10/516,582

FILING DATE: June 17, 2005

TITLE: METHOD FOR ELECTROLESS
METALISATION OF POLYMER
SUBSTRATE

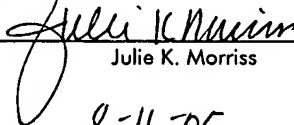
ART UNIT: 1762

EXAMINER:

DOCKET NO.: 3172.ARTH.PT

CERTIFICATE OF MAILING
UNDER 37 C.F.R. § 1.8

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Julie K. Morriss

8-16-05

Date of Deposit

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.98(a)(1), enclosed is Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). Applicants respectfully submit that this Information Disclosure Statement is filed, pursuant to 37 C.F.R. § 1.97 (b), within three months of the filing date of the application, within three months of the date of entry of the national stage set forth in § 1.491 or before the mailing date of a first Office action on the merits. Applicants request that the references cited in the enclosed form PTO-1449 be made of record in the above-captioned application. While no representation is made that any of the references may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

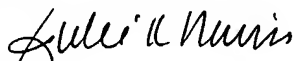
Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the references listed, together with any other references which may have been previously submitted or listed, are the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no reference which is more relevant to the claimed invention (taken in its entirety) has been knowingly withheld.

In accordance with the waiver of 37 C.F.R. § 1.98(a)(2)(i) published in the Official Gazette on August 5, 2003 for U.S. patent applications filed after June 30, 2003, copies of each cited U.S. patent and each U.S. patent application publication are not enclosed. Applicants have submitted copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. § 1.98 (a)(2). Any listed reference that is not in the English language is accompanied by a concise explanation in English of its relevance as required under 37 C.F.R. § 1.98(a)(3)(i).

Please charge any additional fees or credit any overpayment to Deposit Account No. 50-0881.

DATED this 16th day of August, 2005.

Respectfully submitted,



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	10/516,582
Filing Date	June 17, 2005
First Named Inventor	Sunil Madhukar Bhangale
Group Art Unit	1762
Examiner Name	
Attorney Docket	3172.ARTH.PT

Sheet	1	of	2
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US-3,791,848	02-12-1974	DeAngelo	
		US-4,078,096	03-07-1978	Redmond et al.	
		US-4,517,254	05-14-1985	Grapentin et al.	
		US-4,574, 095	03-04-1986	Baum et al.	
		US-4,770,899	09-13-1988	Zeller	
		US-5,084,299	01-28-1992	Hirsch et al.	
		US-5,147,518	09-15-1992	Freilich	
		US-5,178,914	01-12-1993	Goldblatt et al.	
		US-			
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		US-			
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁹
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		EP 0 538 006 A1	04-21-1993	Enthone-Omi, Inc.		
		EP 0 221 359	07-26-1989	International Business Machines Corporation		
		WO 93/00456	01-07-1993	Harnden		
		EP 0 518 422 A2	12-16-1992	N.V. Phillips' Gloellampenfabrieken Groenewoudseweg		
		JP 07216553	08-15-1995	Sumitomo Metal Mining		

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁹ Applicant is to place a check mark here if English language translation is attached.

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10/516,582

June 17, 2005

Sunil Madhukar Bhangale

1762

Attorney Docket

3172.ARTH.PT

Examiner
Initials*

Cite
No. 1

Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published

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LEE, K.W., et al. "Surface Modification of PMDA-ODA Polyimide: Surface Structure-Adhesion Relationship," Macromolecules Vol. 23, No. 7, pp. 2097-2100. 1990: Yorktown Heights, New York.

LEE, K.W., et al. "Wet-Process Surface Modification of Dielectric Polymers: Adhesion Enhancement and Metallization," IBM Journal of Research and Development Vol. 38 No. 4, pp. 457-474. 1994: Yorktown Heights, New York.

BOONEKAMP, E.P. et al. "Adsorption of Nanometer-Sized Palladium particles on Si(100) Surfaces," Langmuir Vol. 10, pp. 4089-4094. 1994: Columbus, Ohio.

HIRAI, H. et al. "Characterization of Palladium Nanoparticles Protected with Polymer as Hydrogenation Catalyst," Reactive & Functional Polymers Vol. 37, pp. 121-131. 1998: Tokyo, Japan.

HIRAI, H. "Formation and Catalytic Functionality of Synthetic Polymer-Noble Metal Colloid," Journal of Macromolecular Science - Chemistry A13(5), pp. 633-649. 1979; New York.

Examiner
Signature

Date Considered

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